| Notice of Allowability | Application No. | Applicant(s) | | |
|---|---|---|---------------------------|--|
| | 10/603,963 | PAIZ, RICHARD S. | | |
| | Examiner | Art Unit | | |
| | REXFORD N BARNIE | 2643 | | |
| The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in this ap or other appropriate communicatio GHTS. This application is subject to | pplication. If not includ n will be mailed in due | ed course. THIS | |
| 1. \square This communication is responsive to <u>06/05/2003</u> . | | | | |
| 2. ☑ The allowed claim(s) is/are <u>1-11</u> . | | | | |
| 3. $igotimes$ The drawings filed on <u>05 June 2003</u> are accepted by the E | xaminer. | | | |
| 4. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority doc | been received. been received in Application No | | ation from the | |
| International Bureau (PCT Rule 17.2(a)). * Certified copies not received: | | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | complying with the re- | quirements | |
| A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give | | | IOTICE OF | |
| 6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the statement sheet (see 20 CFR 1). | on's Patent Drawing Review (PTO s Amendment / Comment or in the (84(c)) should be written on the drawi | Office action of | e back) of | |
| DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I | sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIC | must be submitted. I | Note the | |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948) | 5. Notice of Informal F | | 0-152) | |
| | Paper No./Mail Da | 6. ☐ Interview Summary (PTO-413), Paper No./Mail Date | | |
| Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date Examiner's Comment Regarding Requirement for Deposit | _ | 7. Examiner's Amendment/Comment | | |
| of Biological Material | | 8. ⊠ Examiner's Statement of Reasons for Allowance9. ☐ Other | | |
| | REX | COMMUNICATION OF THE PROPERTY EXAMINER | 09/17/104 | |

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REASON FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: In a telecommunications network incorporating a plurality of call carrier billing entities, a method of gathering and converting multiple independent billable segments of a telephone call into corresponding billing components for communication to a designated call owner in a manner enabling the call owner to effect billing immediately upon termination of the telephone call and prior to network generation of billing component Call Detail Records (CDRs), comprising the steps of:

providing a telecommunications network covering a plurality of geographical regions, wherein each geographical region is subdivided into a plurality of Local Access Transport Areas (LATAs), each LATA is subdivided into a plurality of Number Plan Areas (NPAs), each NPA controls a plurality of NXX exchanges, and each NXX exchange controls a plurality of Central Office (CO) switches; integrating a parallel-distributed computer system into the telecommunications network to define a plurality of concurrently operating independent nodes distributed throughout the telecommunications network in a hierarchical arrangement comprising tiered groups of nodes within the network, a first tier group of said nodes strategically located within the network to monitor and control local call traffic within the NPAs, a second tier group of nodes strategically located within the network to monitor and control local long distance traffic within a LATA or a geographical region having multiple LATAs, and a third tier group of nodes strategically located within the network to monitor and control long-distance and international call traffic:

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receiving a telephone call transaction request within the telecommunications network at a first node within said first tier group, the transaction request defining a first telephone number identifying a call origination point and a second telephone number identifying a call destination point; receiving a vector call trajectory at said first node from the telecommunications network, the vector call trajectory comprising a plurality of vector segments defining a switch-to-switch pathway of said call between' said call origination and destination points;

converting the vector call trajectory into a corresponding node-to-node billing trajectory bitmap;

identifying, at each node of said billing trajectory bitmap, which of the plurality of call carrier billing entities within a call billing segment associated with the node are being used and the associated call carrier costs;

alerting each of the nodes along the billing trajectory bitmap to generate a respective billable call segment for communication to a subsequently assigned call owner immediately upon receipt of a telephone call disconnect notification;

establishing ownership of the telephone call, at said first node, among said first, second and third tier groups;

assigning ownership of the call to a call owner node within one of said first, second and third tier groups;

receiving notification at the first node that the telephone call has disconnected; and merging the individual billing components at said assigned call owner node as claimed and connected in claims 1-11.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **REXFORD N BARNIE** whose telephone number is (703)306-2744. The examiner can normally be reached on M-F 9:00-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CURTIS KUNTZ can be reached on (703) 305-4708. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRIMARY EXAMINER REXFORD BARNIE 09/17/04

> REXFORD BARNIE PRIMARY EXAMINER